

DEP METEORIC WATER MOBILITY TEST
LABORATORY NUMBER G066-07L
INVOICE NUMBER G0214L
DATE March 27, 1992
Page 2 of 3
Sample I.D.: Waste Rock Characterization W-3

TEST PROCEDURE

Material, all passing 2 inches identified by the client as Waste Rock W-3 March '92 was air dried and split to obtain a test sample of 5,116.6 grams. The sample was placed in an 8 inch column for extraction by an artificial lixiviant of pH 6.12 made from reagent grade water and nitric acid. A solution application rate of .48 liters per hour was used to circulate 11,580 milliliters of the lixiviant through the material. Solution recovery at 24 hours was 96.4% with a saturation volume of 210 ml's. The recovered solution was preserved for testing as required for each type of analysis to be conducted.

A separate split of the test material was wet screened to obtain the percentage of material passing a 200 mesh U.S. standard screen. Test results are tabulated as follows:

Sample: Waste Rock Characterization W-3
Test Sample Weight: 5,116.6 grams
Solution Volume applied: 11,580 milliliters
Initial pH: 6.12 Lixiviant
Final pH: 5.87 Effluent
Leach Time: 24 hours Leach Method: Column
Saturation Volume: 210 milliliters
Percent material passing 200 mesh: 8.92%

METHOD

Alkalinity:			EPA 310.0
Bicarbonate		mg/l	
Total	17	mg/l	
Sulfate:	908	mg/l	EPA 375.4
Chloride:	13.75	mg/l	EPA 325.3
Strate:	4.55*	mg/l	EPA 350.3
Fluoride:	2.50*	mg/l	EPA 340.2
IS:	1,522	mg/l	EPA 160.2
A.D. Cyanide:	N/A	mg/l	ASTM D2036-89

* Indicates analytical constituent analyzed by another laboratory.

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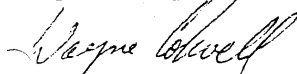
AMENDED PAGE

32 ELEMENT ANALYSIS					
Sample I.D.: Waste Rock Characterization W-3					
Element	ppm	Element	ppm	Element	ppm
Aluminum	0.069	Gallium	-0.050	Scandium	-0.050
Antimony	-0.050*	Iron	0.143	Selenium	-0.005
Arsenic	-0.05*	Lead	-0.025	Silver	-0.05*
Barium	0.099	Lithium	0.24	Sodium	14.36
Beryllium	0.004	Magnesium	31.65	Strontium	1.171
Bismuth	-0.025	Manganese	1.095	Thallium	-0.040
Cadmium	-0.005	Mercury	0.00294*	Tin	-0.080
Calcium	246*	Molybdenum	0.010	Titanium	0.038
Chromium	0.109	Nickel	0.085	Vanadium	0.008
Cobalt	0.123	Phosphorus	-0.100	Zinc	0.607
Copper	19.41	Potassium	7.400		

EPA METHOD: 200 SERIES

*Indicates analytical constituent analyzed by another laboratory.

Respectfully Submitted


Wayne M. Colwell
General Manager



MINERALS PROCESSING AND ENVIRONMENTAL LABORATORIES, INC.

STATIC TEST

FOR

Arimetco, Inc./Copper Tek Corporation
102 Burch Drive
Yerington, NV 89447

ATTN: Bill Sifford

Laboratory Number G066-07A
Invoice Number G0214A

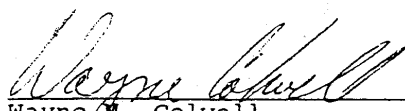
February 4, 1993

FINAL REPORT

Static Test
Laboratory Number G066-07A
Invoice Number G0214A
Date February 4, 1993
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FINAL REPORT

Sample I.D.: Waste Rock Characterization W-3		
	Units of Measure	
Total Sulfur (as S)	0.19	%
Pyritic Sulfur (as S)	0.05	%
Sulfur, Unidentified (as S)	-0.01	%
Sulfate, Sulfur (%)	0.18	%
APP/Peroxide (as S)	-0.01	%
Total Sulfur	5.9	(Tons CaCO ₃ /Kt)
Pyritic Sulfur	1.6	(Tons CaCO ₃ /Kt)
APP/Peroxide	-0.3	(Tons CaCO ₃ /Kt)
Acid Neutralizing Potential	6.9	(Tons CaCO ₃ /Kt)


Wayne M. Colwell
General Manager

Site: PPER MINE, YERINGTON
SDG: 00299B, 00299C
Date: 11/07/00

Case Number: R01S07

[illegible]

Com - Comments refer to the corresponding section in the report narrative for each letter.

N/A - Not Applicable.

N/R - Not Required.

Q - Refer to data qualifiers.

11 - The parameter was equal to

1. The associated value is not estimated.

J - The associated value is an estimated quantity.

All results are in mg/Kg dry weight.



Photo 1
Looking southwest at South Waste Rock Dump from Highway 95 at
Bridge Street (5/24/2002)



Photo 2
Looking northeast at southeast corner of South WRA; Yerington water
tank in foreground (1/24/2002)



Photo 3

Looking northwest at “slot” mine cut and W-3 Waste Rock Dump – Phase
IV-Slot solution drainage berm and liner in foreground (5/24/2002)

JSA NUMBER: Yerington – 04 DATE: 08/05/02 NEW X REVISION	Company Performing the Job: Brown and Caldwell	SUPERVISOR: Charles Zimmerman SAFETY OFFICER: Brian Bass
JOB TITLE OR TASK: Surface Investigation for Waste Rock Dump closure.	TITLE OF PERSON(S) WHO PERFORMS JOB: Site Managers: Brian Bass, Nathan Robison, Chad Leonard Operations Technician:	ANALYSIS BY: Nathan Earl Robison REVIEWED BY: APPROVED BY:
RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT (PPE) AND/OR PERTINENT JOB SAFETY FORMS: Hard hat, safety goggles or glasses, steel-toed boots. As appropriate: rubber gloves, face shield, rubber boots or hip waders, half-mask respirator.		
SEQUENCE OF BASIC JOB STEPS	POTENTIAL HAZARDS	PREVENTIVE OR CORRECTIVE ACTION
1. Pre-Construction Safety Meeting.		1. All employees assigned to this task will attend a pre-construction safety meeting, which will include the pertinent JSAs, Standard Operating Procedures, types of potential hazards, and actual hazards present and controls for those hazards.
2. Collection of soil sample by hand and decontamination of equipment.	1. Skin irritation from dermal or eye contact. 2. Slipping or falling on surface- sharp rock.	1. Wear rubber or latex gloves to prevent contact with hands and arms. Wear safety glasses or goggles to prevent eye contact from dust. 2. Wear boots with treaded soles to reduce potential for slipping.
3. All Activities	1. Back, hand, or foot injuries during manual handling of materials.	1. Workers should inspect materials for slivers, jagged or sharp edges, and rough or slippery surfaces. 2. Workers should wipe off greasy, wet, slippery, or dirty objects before attempting to handle them. 1. In most cases, gloves or other protection should be used to prevent hand injuries. 2. Steel-toed boots should be used for protection of the feet when not in the water. 3. Routes should be surveyed for obstacles prior to moving materials from one location to another. 4. All three main factors in manual lifting (load location, task repetition, and load weight) must be considered when evaluating what is safe or unsafe to lift. 7. All manual handling of heavy or bulky objects should be carefully planned to avoid injuries and damage to equipment.
4. All Activities	1. Heat exhaustion or stroke.	1. Avoid strenuous work in ambient temperatures over 80 degrees F. 2. Wear light-colored clothing, shaded sunglasses, and hat that provides shade and adequate air movement. 3. Find cool, shady area for breaks or respite from heat. 4. If worker feels dizzy, has a headache, has cool, moist, or pale skin or is weak, immediately move to a cooler environment, loosen tight clothing, provide air circulation to area, and provide small amounts of cool water to drink. 5. If worker has a change in level of consciousness, high body temperature, red, hot skin, rapid or weak pulse, or rapid or shallow breathing, call the emergency phone number and give care in accordance with #4 above.

SEQUENCE OF BASIC JOB STEPS	POTENTIAL HAZARDS	PREVENTIVE OR CORRECTIVE ACTION
5. All Activities	1. Hypothermia or frostbite.	<ol style="list-style-type: none"> 1. Avoid working in extreme cold. 2. Wear warm, layered clothing with adequate protection for hands and feet. 3. Find warm area out of the wind for breaks or respite from cold. 4. If worker experiences shivering, irregular pulse, numbness, glassy stare, impaired judgement, loss of muscle control with no shivering, or loss of consciousness, gently move worker to warm place, check vital signs, remove any wet clothing, cover with blankets and warm slowly. 5. If worker experiences loss of feeling or sensation in extremities, discolored or waxy skin, blisters or blue skin, remove wet clothing and jewelry, soak frostbitten area in warm water, cover with dry, sterile dressing (do not rub anything on the area), check vital signs.
6. Unsafe conditions.	1. All potential hazards.	<ol style="list-style-type: none"> 1. Where a situation presents a hazardous condition, the exposed employee will be removed from the hazardous area until all necessary precautions have been taken to eliminate the hazard and ensure their safety.

Personnel Signatures		
JSA NUMBER: Yerington-04 DATE: 08/01/02 NEW X REVISION	Company Performing the Job: Brown and Caldwell	SUPERVISOR: Charles Zimmerman SAFETY OFFICER: Brian Bass
JOB TITLE OR TASK: Surface Investigation for Waste Rock Dump closure.	TITLE OF PERSON(S) WHO PERFORMS JOB: Site Managers: Brian Bass, Nathan Robison, Chad Leonard Operations Technician:	ANALYSIS BY: Nathan Earl Robison REVIEWED BY: APPROVED BY: